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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,713	02/02/2006	Philip Stephen Fullam	1111-29	7486
24106 EGBERT LAW	7590 10/16/200 OFFICES		EXAMINER	
	REET, 7TH FLOOR		HAYES, KRISTEN C	
HOUSTON, TX 77002			ART UNIT	PAPER NUMBER
			3643	
			MAIL DATE	DELIVERY MODE
			10/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/535,713	FULLAM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kristen C. Hayes	3643				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>17 Ju</u>	ne 2008.					
·						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>21-28</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>21-28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
255 the diagonal detailed embe detail for a list of the defined copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	акент Аррисация				

Art Unit: 3643

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 21-28 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 21 introduces the limitation of the milk being unfiltered. This limitation is not disclosed by the original disclosure.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 21 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Kolehmainen GB 2001434.
- 5. Regarding claim 21, Kolehmainen discloses a method of testing milk from an animal for a presence of an infection in the animal, the method comprising introducing an unfiltered liquid sample (Kolehmainen, page 1: line 65) of the milk and a reagent (Kolehmainen, page 1: lines 69-70) into a reaction chamber (6), said reagent having a light-amplifying compound therin; reacting said light-amplifying compound with a substance produced by cells of the animals in

Art Unit: 3643

response to the infection (Kolehmainen, page 1: lines 69-81); emitting light from the reacted light-amplifying compound and immediately measuring an intensity of the emitted light (Kolehmainen, page 1: lines 77-78).

6. Regarding claim 25, Kolehmainen further discloses measuring the intensity for a maximum of five minutes after the step of introducing (Kolehmainen, page 1: lines 109-112).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kolehmainen GB 2001434 in view of Knight EP 0489602.
- 9. Regarding claims 22 and 23, Kolehmainen discloses the device of claim 21. Not disclosed is the substance being produced by phagocytic leukocytes. Knight teaches the substance being produced by phagocytic leukocytes when they phagocytose bacteria. Knight discloses an alternative substance that is responsive to light and can be used to determine infection. It would have been obvious to one of ordinary skill in the art at the ttime of the invention to make the substance of Kolehmainen phagocytic leukocytes when they pagocytose bacteria as phagocytic leukocytes when they pagocytose bacteria could provide a more acurate reading.
- 10. Regarding claim 24, Kolehmainen in view of Knight further discloses the light-amplifying coumpound reacting with reactive oxygen so as to emit light (Kolehmainen, page 1: line 128).

Application/Control Number: 10/535,713

Art Unit: 3643

11. Regarding claim 21, Aerojet discloses a method of testing milk from an animal for the presence of an infection in the animal comprising the steps of introducing a sample of milk and a reagent comprised of a light amplifying compound into a reaction chamber (26), the light amplifying compound reacting with a substance in response to infection to emit light (Aerojet, page 1: line 39-50), and immediately measuring the intensity of any light emitted from the sample (Aerojet, page 3: lines 10-14). Not disclosed is this

Page 4

- 12. Claims 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kolehmainen GB 2001434 in view of Aerojet GB 1315467.
- 13. Regarding claim 26, Kolehmainen further discloses a fluid-tight and light-tight (7, 11) reaction chamber of variable capacity (10). Not disclosed are a first inlet port connected to a milk line, a second inlet port connected to a supply of reagent or increasing the capacity of the reaction chamber so as to draw the milk and reagent into the reaction chamber. Aerojet further discloses connecting a first inlet port (12) of a generally fluid and light tight reaction chamber (26) of variable capacity to a milk sample (11), connecting a second inlet port (14) of the reaction chamber to a supply (13) of reagent and increasing capacity of the chamber (by way of 23) (Aerojet, page 3: lines 5-9) in order to draw milk and reagent into the chamber. Not disclosed is the first inlet port being connected to a milk line in an automated milking system. However, Aerojet discloses maintaining a continuous flow within the system between the sensor and samples (Aerojet, page 3: lines 10-14). It would have been obvious to one of ordinary skill in the art at the time of the invention connect a first inlet port of the reacting chamber to a milk line, connect a second inlet port to a supply of reagent and to draw the milk and reagent into the reaction chamber as to automate the system of Kolehmainen and to connect the first inlet port of Aerojet to a milk line in an automated milking system so to provide continuous flow to the sensor, as suggested by Aerojet.

Art Unit: 3643

14. Regarding claim 27, Kolehmainen in view of Aerojet discloses the device of claim 26. Aerojet further discloses controlling an electrically-actuated operating valve (16) to regulate proportion of reagent and sample drawn into the reaction chamber (Aerojet, page 1: lines 79-85). Not disclosed is a plurality of valves with the valves provided in inlet ports. A plurality of valves, with a valve in each inlet port would provide the predictable result of allowing the amount of sample or reagent to be controlled individually with the user able to control the ratio of milk to sample. It would have been obvious to one of ordinary skill in the art at the time of the invention to further modify the device Kolehmainen with electrically-actuated operating valves as to accurately control the amount of sample and reagent feed into the reaction chamber and to modify the device of Aerojet so that there was a plurality of valves, with a valve in each inlet port, as discussed above.

15. Regarding claim 28, Kolehmainen as modified by Aerojet further discloses moving a piston (Kolehmainen, (10)) in the reaction chamber.

Response to Arguments

16. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

Art Unit: 3643

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Kristen C. Hayes whose telephone number is 571-270-3093. The

examiner can normally be reached on Monday-Thursday, 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter Poon can be reached on (571)272-6891. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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applications is available through Private PAIR only. For more information about the PAIR

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would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCH

13 October 2008

Peter Poon Examiner Art Unit 3643

/Peter M. Poon/ Supervisory Patent Examiner, Art Unit 3643